Process Offerings

Contract CO1:   **createOffering**

Operation: createOffering(lessonName: String, location: Location, time: Schedule, public: Boolean)

Cross References: Sequence Diagram: Process Offerings

Preconditions: - Administrator is logged onto the system

Postconditions: - An id for the new offering is generated and assigned to the new offering instance (attribute modification)
- An Offering instance o was created (instance creation)
- o.instructorId was initialized to null
- Instance o was added to the collection of offerings (association formed)

Contract CO2:   **selectLesson**

Operation: selectLesson(offerId: Integer, instructorId: Integer)

Cross References: Sequence Diagram: Process Offerings

Preconditions: - Instructor is logged onto the system
- Available offerings are displayed to the system

Postconditions: - System searches offering collection to check if the offering is available
- o.instructorId is set to instructorId (attribute modification)

Contract CO3:   **viewPublicOfferings**

Operation: viewPublicOfferings()

Cross References: Sequence Diagram: Process Offerings

Preconditions: - A user checks for public offerings
- The offering must have an assigned instructor (!=null)

Postconditions: - The system displays all available lessons with an assigned instructor

New Additions

Process Bookings

Contract CO1:   **bookOffering**

Operation: bookOffering(offering: Offering)

Cross References: Sequence Diagram: Process Bookings

Preconditions: - An offering is listed as available in the system
- The client is logged into the system and is above the age of 18

Postconditions: - A booking object instance b was created (instance creation)

Contract CO2:   **viewBooking**

Operation: viewBooking(b: Booking)

Cross References: Sequence Diagram: Process Bookings

Preconditions: - A booking b is registered in the system

Postconditions: - Booking b was found and displayed to the screen

Contract CO3:   **cancelBooking**

Operation: cancelBooking(b: Booking)

Cross References: Sequence Diagram: Process Bookings

Preconditions: - A booking b is registered in the system
- The user is either an administrator or the client that made the booking

Postconditions: - Booking instance b was found and removed from the system (instance deletion)